



United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



IN REPLY REFER TO: MT-450

August 11, 2014

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6040
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Valerie Newman

From: Reservoir and River Operations, Billings, Montana /s/ Tim H. Felchle

Subject: **Yellowtail Water Release Order - BHR No. 14-77**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3639.37; Storage: 1,012,703 acre-feet; River Release: 2,600 cfs; Inflow: 2,980 cfs;

GENERAL COMMENTS:

The BIA requested a decrease in diversions to the Bighorn Canal. In response, the following operations are required at Yellowtail Dam and Powerplant and Yellowtail Afterbay Dam.

SPECIAL NOTE: To provide the proper mixing of water releases to the Bighorn River in attempt to minimize PSAT levels, it is desirable to maintain the Yellowtail Afterbay Reservoir between a maximum elevation of 3192.0 feet and a minimum elevation of 3183.6 feet and provide a mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates, plus or minus 10%.

YELLOWTAIL TURBINE RELEASE:

At 1600 hour on Monday, August 11, 2014:

Maintain average daily turbine release at 2,955 cfs (\approx 2,150 MW-Hours/day using 33.0 cfs/mw).

Due to major unit re-wind project, restrict and limit turbine release to 3-unit capacity.

AFTERBAY RELEASE AND OPERATION:

At 1600 hour on Monday, August 11, 2014:

Decrease diversion to the Bighorn Canal to 375 cfs (gage height = 74.23 with -1.23 shift).

Increase river release to 2,650 cfs (gage height = 60.67 with -0.55 shift).

Maintain total release from the Afterbay at 3,025 cfs.